

2011 Congressional Nuclear Cleanup Caucus

Oak Ridge Tennessee

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Key Oak Ridge Missions

Oak Ridge Office

- Science and Technology
- Science Education
- Environmental Cleanup
- Energy & Nuclear Fuel Supply
- National Security
- Technology Transfer

Integrated Support Center

- Support to DOE Office of Science Lab Sites
- Payment Center
- Other Site Support











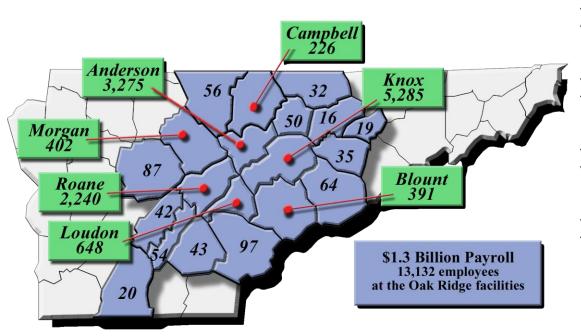


A World Leading Research and Advanced Manufacturing Park



Economic Impact of DOE Programs in Tennessee

Regional Impact



Misc. counties = 50

Statewide Impact

- \$4.0 billion increase in gross state product
 - 62,000 full-time jobs supported
 - \$90 million state and local sales tax paid
 - 4th largest employer in the State of Tennessee

OR Environmental Management Budget

Energy & Water Appropriations Budget Authority in	RECOVERY	FY 2010	FY 2012
Millions of Dollars	ACT		President's Budget
Environmental Management (EM)	755	436	401

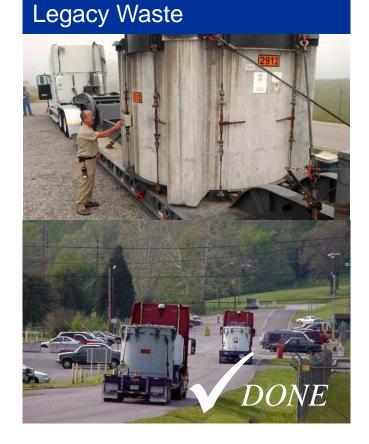


Major Concerns for the Public and Vital Missions Largely Resolved by 2020



Demonstrating Results









Demonstrating Results











- Treated 35 million pounds of MLLW/PCB waste since 1991
- Completed waste treatment operations December 2, 2009
- RCRA closure: Completed December 2010 and is awaiting demolition



Success Achieved: Witherspoon Scrap Yards Project

- Two privately-owned sites in a low-income and diverse community in South Knoxville
- Received scrap equipment and parts from DOE Oak Ridge sites from the 1950's -1980's
- Contaminated scrap left outdoors, radioactive & chemical elements leached into soil





TWPC and U233 Projects

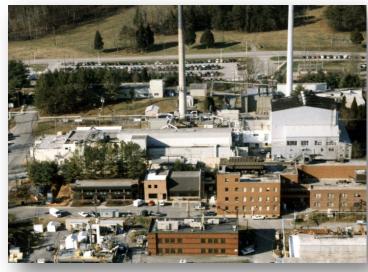
TRU Waste Processing Facility



➤ Safe, Secure and Cost Effective Permanent Disposition of U-233 from Building 3019

- This project was constructed for the processing of Supernate, Contact Handled (CH) and Remote Handled (RH) Transuranic Waste
- Under Recovery Act have accelerated waste processing via a two shift operation.

U-233 Disposition Project (Building 3019)





East Tennessee Technology Park



K-25 Building

Project Highlights

- > Continued Clean out of the K-25 Building - North End and East Wing
- > Continued Excavation of the classified landfill
- Completed demolition of the K-25 West Wing in Jan. 2010

EM American Recovery & Reinvestment Act Work

\$755M for 24 Environmental Cleanup projects across the Oak Ridge Reservation

Execution of EM Recovery Act work involves <u>four</u> sites, <u>four</u> prime contractors, <u>three</u> DOE program offices, and <u>three</u> funding sources: Defense, Non-Defense, and Uranium Enrichment Decontamination & Decommissioning Fund (UED&D)

- > ETTP (EM): Bechtel Jacobs performing work K-27 at ETTP. (\$27 M)
 - LATA Sharp Remediation Services is demolishing K-33 at ETTP.
 (\$65M) Demolition is ~60% complete as of 2/28/11.
- > TRU Waste Processing Center (EM): Additional shift work added on to existing contract (\$80 M)

ARRA Projects

Environmental Management Waste Management Facility Expansion

Completed: increased capacity from 1.2 million yd³ to 1.65 million yd³

- One month early
- \$2 million under budget





ORR Landfill Expansion
Nearing completion (April 2011):
expanding facility by 385,000 yd³

ARRA Projects (continued)

Tank W-1A Removal Action

Removing the highly radioactive tank and surrounding contaminated soil at Oak Ridge **National Laboratory**

- Sampling and characterization completed
- Weather enclosure erected
- Field work to begin this spring





Melton Valley Monitoring Wells

Completed: installed 16 wells to check for contamination migrating off the DOF Reservation

- On schedule
- \$200K under budget

ARRA Projects (continued)

K-27 Building ARRA Scope

Completed:

- Construction electrical upgrades
- Storage area fence installation
- Grip Strut installation (3 units)
- Vault clean-out
- Lube oil draining and disposal
- Coolant draining and disposal
- Universal waste removal and disposal
- Asbestos abatement







Environmental Cleanup - ORNL



- ➤ 327 excess buildings
- > 1.5 million square feet
- Radiological contaminants (Transuranics, Strontium, & Cesium)
- Over 26 million curies

Cold War Legacy cleanup complete





Environmental Cleanup – Y-12



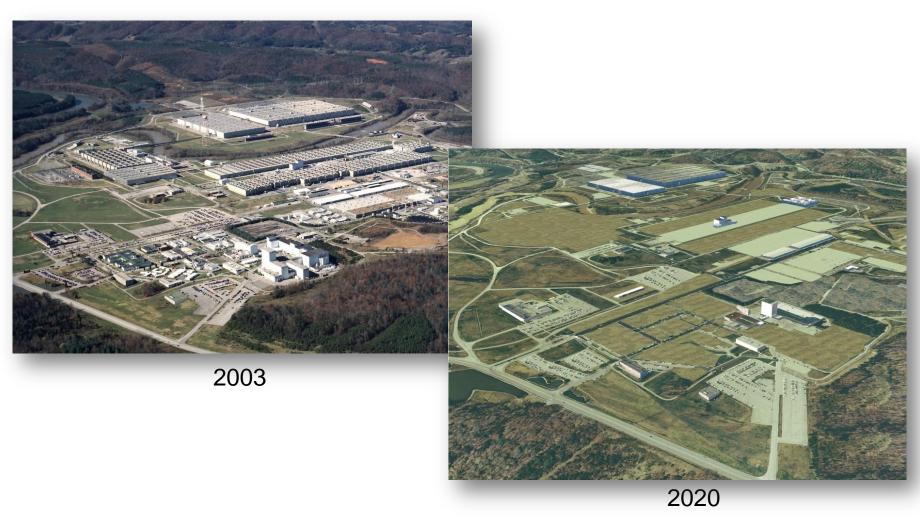
- 112 excess buildings
- 3.8 million square feet
- 2 million pounds of Mercury lost dating back to Cold War and earlier times.

- Modernized Y-12 incorporating new Uranium Processing Facility & Highly-Enriched Uranium Materials Facility
- High Security footprint reduced
- Cold War Legacy cleanup complete





East Tennessee Technology Park



Project Highlights

Facilities demolished

224

Footprint reduced

2.11 million ft²

UF₆ cylinders removed

7,000

Waste treated at TSCA Incinerator

35 million lbs. (has been successfully shut down)





Safety Initiatives Involve All Employees

- Injury-free event cards: allows employees to report incidents that pose the potential for accidents
- Plan of the Day meetings and STARRT cards: meetings are conducted prior to work each day; a Safety Task Analysis Risk Reduction Talk (STARRT) card is used to discuss scope, ensure employees are familiar with the work and hazards, and discuss what conditions could change
- New-Hire Orientation: the President, Vice President, or Manager of Construction personally present our safety approach and expectations to all new hires at their initial orientation
- After the Holiday Safety Pauses: we conduct safety meetings for all employees after holidays to refocus them back to working safely
- People-Based Safety Process: consists of worker-owned, no- name/noblame observation teams composed of manual employees with a management champion who help each other work safely

Oak Ridge: Committed to Confronting Our Unique Cleanup Challenge

By 2020 we can:

- Eliminate major threat to surface and ground water
- Eliminate major threats to workers, public, environment, and ongoing missions
- Transform ETTP
- Eliminate TRU and U-233 waste
- Dramatically reduce risk and taxpayer liability







